

Message Text

PAGE 01 NATO 05408 032224Z

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DEPT. PLEASE PASS TO EPA FOR F. ALLEN HARRIS

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TAGS: CCMS, SENV

SUBJ: CCMS: ADVANCED WASTEWATER TREATMENT - UK WORKSHOP

SEPT. 29-OCT. 3, 1975

REF: USNATO 1810

SUMMARY: UK AS PILOT COUNTRY FOR CCMS PILOT STUDY ON ADVANCED WASTE WATER TREATMENT (AWT) HELD WORKSHOP ON SEPT. 29-OCT 3 AT TECHNICAL FACILITIES IN STEVENAGE, MANCHESTER, AND COLESHILL IN U.K. ALLIED REPS ATTENDED FROM CO-PILOT COUNTRIES; CANADA, FRANCE, FRG, AND US, AS WELL AS FROM ITALY, NORWAY, NETHERLANDS AND PORTUGAL, PLUS OBSERVERS FROM ISRAEL, VENEZUELA AND SINGAPORE. CENTERPIECE OF WEEK WAS TOUR OF COLESHILL PHYSICAL-CHEMICAL TREATMENT PILOT PLANT BEING DEVELOPED BY U.K. IN CONNECTION WITH CCMS PILOT STUDY, WHERE ACTIVE EXPERIMENTATION AND DEMONSTRATION PROGRAM ALREADY UNDER WAY. END SUMMARY.

1. FOLLOWING BELOW ARE PRELIMINARY COMMENTS ON WEEK'S EVENTS BY U.S. REP BUNCHE (EPA), TO SERVE AS BASIS FOR PREPARATION OF U.S. SUPPORTING STATEMENT FOR CCMS PLENARY, OCTOBER 14-15, UNCLASSIFIED

PAGE 02 NATO 05408 032224Z

NATO/CCMS MEMBER COUNTRY NATIONAL REPS HELD CLOSED PLANNING SESSION AT END OF WORKSHOP TO SKETCH OUT DESIRABLE FURTHER STEPS IN THE TECHNICAL DEVELOPMENT AND TECHNICAL AND ECONOMIC EVALUATION OF SELECTED ADVANCED WASTE WATER AND SLUDGE TREATMENT

PROCESSES UNDER CCMS PILOT STUDY AND TO REACH AGREEMENT ON NEXT PHASE OF MULTINATIONAL WORKPROGRAM, INCLUDING SITE AND GENERAL TECHNICAL FOCUS OF NEXT MEETING. BUNCHE WILL BE BACK IN EPA CINCINNATI LAB WEDNESDAY A.M., OCTOBER 8, AND WILL TELEPHONE HARRIS (EPA) WITH FINAL DETAILS.

2. BEGIN TEXT:

A. PHYSICAL CHEMICAL TREATMENT

THE NATO-CCMS-AWT WORKSHOP MEETING IN THE U.K., SEPT. 29 - OCT. 3, 1975, SERVED TO FACILITATE AND ENCOURAGE THE TRANSFER OF TECHNOLOGY AND ESTABLISH PERSONAL CONTACTS, BOTH OF WHICH ARE ESSENTIAL FOR THE SUCCESS OF THIS IMPORTANT INTERNATIONAL PROJECT. THE WORKSHOP GAVE THE DELEGATES THE OPPORTUNITY TO SEE THE SMALL PHYSICAL-CHEMICAL PILOT PLANT AT THE U.K.'S WATER RESEARCH CENTRE AT STEVENAGE AND DISCUSS THE RESULTS THAT HAVE BEEN OBTAINED DURING THE LAST TWO YEARS. THE REMOVAL OF NITROGEN FROM WASTEWATER IS OF INTEREST TO SEVERAL COUNTRIES. THE RESEARCH GOING ON AT STEVENAGE IS PROVIDING NEEDED ANSWERS TO THE PROBLEMS RELATED TO THE DISCHARGE OF NITROGEN TO OUR SURFACE WATERS.

THE PILOT PLANT AT THE DAVYHULME SEWAGE WORKS, MANCHESTER, WHICH IS JUST NOW GETTING ON STEAM, SHOULD IN THE NEAR FUTURE, PROVIDE THE CCMS PILOT STUDY PARTICIPANTS AND OTHERS WITH METHODS OF WASTEWATER TREATMENT THAT MAY WELL: (A) BE SIGNIFICANTLY CHEAPER THAN PRESENT CONVENTIONAL SYSTEMS; (B) PRODUCE A BETTER EFFLUENT FOR THE SAME COSTS; OR (C) MINIMIZE THE PRETREATMENT REQUIRED OF TRADE WASTES AT THE FACTORIES.

THE UNIQUE COLESHILL ADVANCED WASTEWATER TREATMENT PLANT NEAR BIRMINGHAM IS A TREMENDOUS UNDERTAKING AND THE U.K. SHOULD BE PRIASED FOR CARRYING FORWARD THIS MAJOR OPERATION, WHICH REPRESENTS A SUBSTANTIAL OUTLAY OF FUNDS IN A PERIOD OF BUDGETARY CONSTRAINTS FOR US ALL. THE PLANT ALLOWS ADVANCED WASTEWATER TREATMENT PROCESSES TO BE TESTED AND COMPARED UNDER NEAR FULL-SCALE CONDITIONS, YET RETAINING THE FULL FLEXIBILITY OF LABORATORY OPERATIONS. THE PLANT'S DEVELOPERS ARE TO BE UNCLASSIFIED

PAGE 03 NATO 05408 032224Z

COMMENDED ON THE MOBILE UNIT APPROACH EMPLOYED AT COLESHILL, WHEREBY DIFFERENT COMPONENT ITEMS OF EQUIPMENT IN THE OVERALL TREATMENT SEQUENCE CAN BE QUICKLY AND EASILY ARRANGED IN DIFFERENT COMBINATIONS SO THAT NOT ONLY CAN NEW PROCESSES BE EXAMINED AND TESTED, BUT KNOWN PROCESSES CAN BE FURTHER IMPROVED.

HOPEFULLY THESE ACTIVITIES WILL BE ABLE TO CONFIRM THE U.S. FINDINGS THAT NITRATES ADDED TO THE CARBON COLUMN WILL EXTEND THE WORKING LIFE OF THE CARBON MANY TIMES OVER. IF THESE LABORATORY FINDINGS ARE TRANSLATABLE TO FULL-SCALE PLANTS, IT WILL HAVE AN IMPORTANT IMPACT IN REDUCING THE COST OF ADVANCED WASTEWATER TREATMENT USING PHYSICAL-CHECCAL PROCESSES.

B. OXYGEN TREATMENT

THE U.K. WORKSHOP WAS NOT DIRECTLY CONCERNED WITH EXAMINING AND ASSESSING THE OXYGEN TREATMENT PROCESS--A TECHNIQUE ON WHICH CONSIDERABLE WORK HAS BEEN DONE BY OTHER PILOT STUDY PARTICIPANTS. HOWEVER, DURING THE PRECEDING WEEK, A SPECIAL SESSION ON THE USE OF OXYGEN IN THE ACTIVATED SLUDGE SYSTEM OF WASTEWATER TREATMENT, CONDUCTED DURING THE ANNUAL CONFERENCE OF THE INSTITUTE OF WATER POLLUTION CONTROL, PROVIDED AN EXCELLENT EXAMPLE OF CCMS WORKING FOR THE MUTUAL BENEFIT OF MEMBER COUNTRIES. THIS YEAR'S CONFERENCE OF THE INSTITUTE OF WATER POLLUTION CONTROL WAS HELD IN THE U.K. AT BOURNEMOUTH, FROM 23RD TO 26TH OF SEPTEMBER 1975. ON WEDNESDAY, 24TH OF SEPTEMBER, TIME WAS SET ASIDE FOR A SERIES OF PRESENTATIONS FROM THE U.K., FRANCE, AND THE FEDERAL REPUBLIC OF GERMANY UNDER THE AUSPICES OF THE U.K.'S NATO-CCMS ADVANCED WASTEWATER TREATMENT COMMITTEE (WHICH ALSO ORGANIZED THE SEPT. 29-OCT 3 WORKSHOP). EACH COUNTRY PREPARED PAPERS AND PRESENTED A SUMMATION OF ITS INVESTIGATIONS ON THE USE OF OXYGEN IN WASTEWATER TREATMENT. IN THE DISCUSSION OF THE PAPERS (BY BUNCHE, USA) THE PARAMETERS OF CONCORDANCE WERE LISTED AND THE FACTORS NEEDING FURTHER RESEARCH AND DEVELOPMENTS WERE DISCUSSED WITH SUGGESTED APPROACHES TO THE PROBLEMS. END TEXT.STREATOR

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